FIG. 1

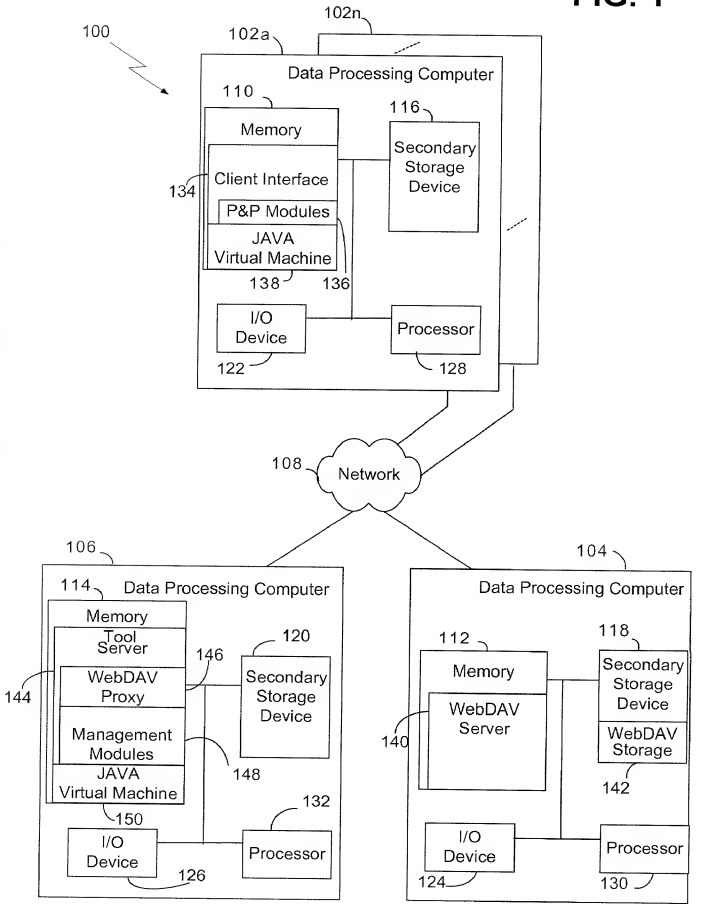

100
102n
102a
Data Processing Computer
110
Memory
116
Secondary Storage Device
134
Client Interface
P&P Modules
JAVA Virtual Machine
138
136
I/O Device
122
Processor
128
108
Network
106
114
Data Processing Computer
Memory
Tool Server
120
146
144
WebDAV Proxy
Secondary Storage Device
Management Modules
148
JAVA Virtual Machine
150
132
I/O Device
Processor
126
104
Data Processing Computer
112
118
Memory
Secondary Storage Device
WebDAV Server
140
WebDAV Storage
142
I/O Device
Processor
124
130

FIG. 2

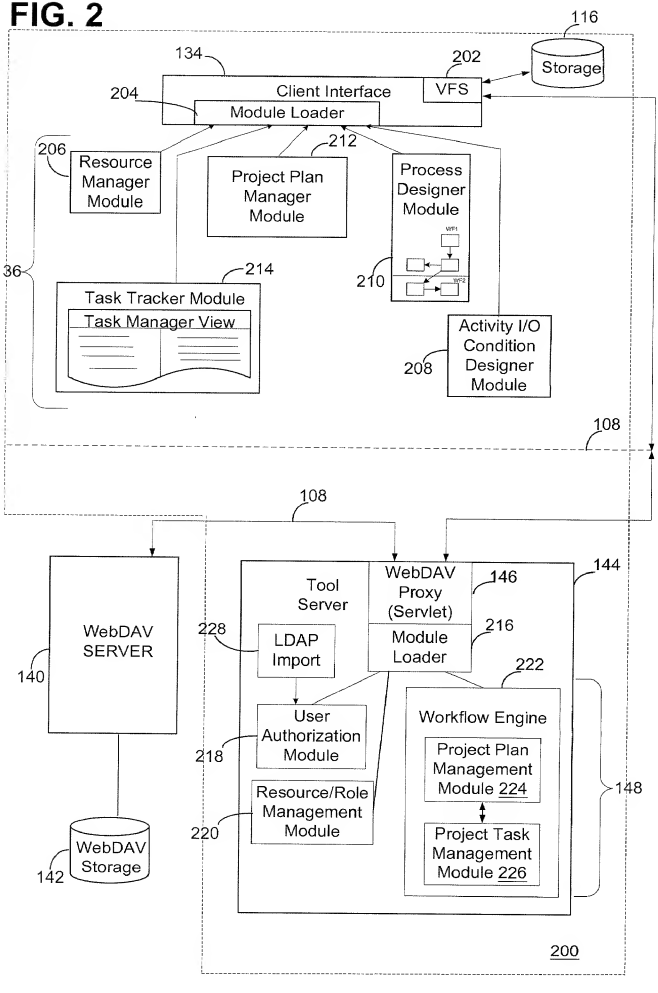

116
Storage
134
202
VFS
Client Interface
204
Module Loader
206
Resource Manager Module
212
Project Plan Manager Module
Process Designer Module
136
214
Task Tracker Module
Task Manager View
210
Activity I/O Condition Designer Module
208
108
108
WebDAV SERVER
140
Tool Server
WebDAV Proxy (Servlet)
146
144
228
LDAP Import
216
Module Loader
222
User Authorization Module
218
Workflow Engine
Project Plan Management Module 224
Resource/Role Management Module
220
Project Task Management Module 226
148
WebDAV Storage
142
200

FIG. 3

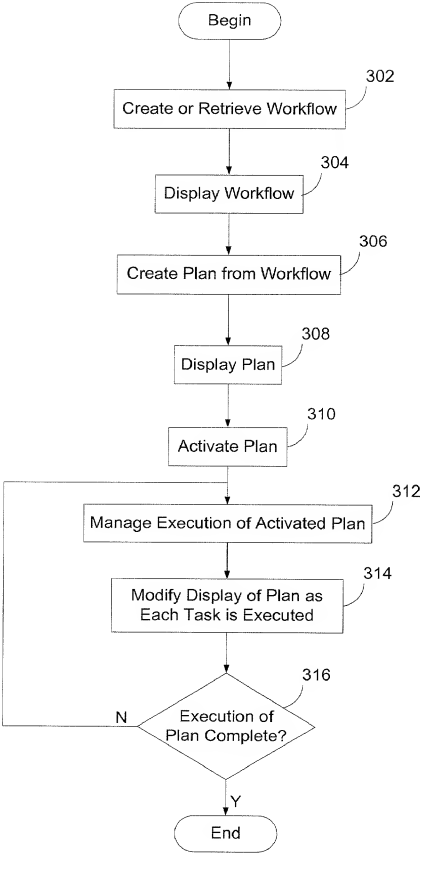

Begin
Create or Retrieve Workflow
302
Display Workflow
304
Create Plan from Workflow
306
Display Plan
308
Activate Plan
310
Manage Execution of Activated Plan
312
Modify Display of Plan as Each Task is Executed
314
Execution of Plan Complete?
316
N
Y
End

FIG. 4

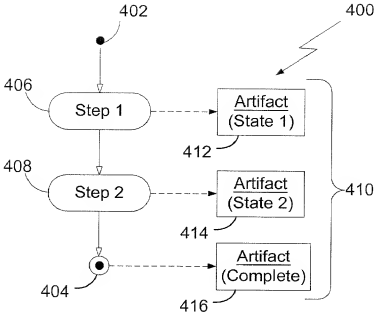

402
400
406
Step 1
Artifact
(State 1)
412
408
Step 2
Artifact
(State 2)
410
414
Artifact
(Complete)
404
416

FIG. 5

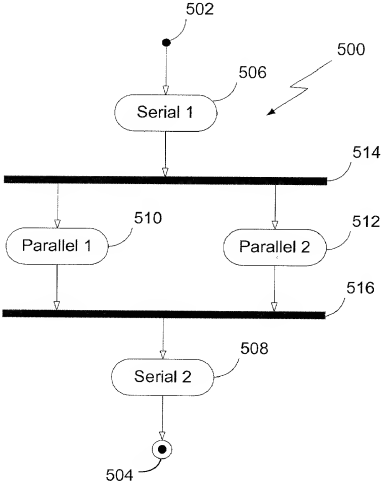
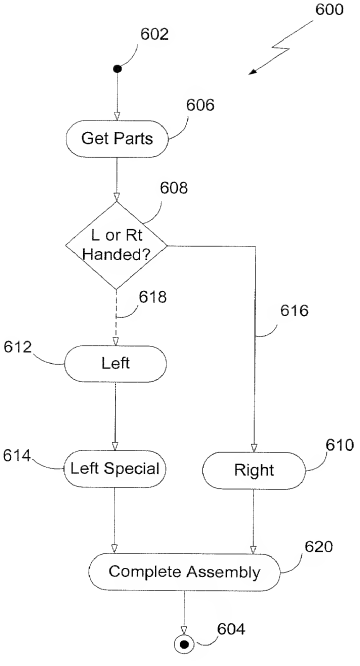

502
500
506
Serial 1
514
510
Parallel 1
512
Parallel 2
516
508
Serial 2
504

FIG. 6


600
602
606
Get Parts
608
L or Rt Handed?
618
616
612
Left
614
Left Special
Right
610
620
Complete Assembly
604

US 6,944,660

FIG. 7

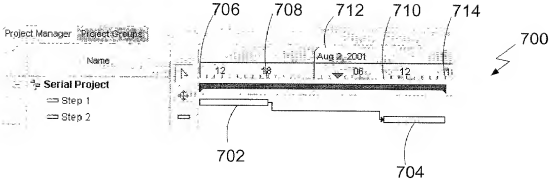


FIG. 8

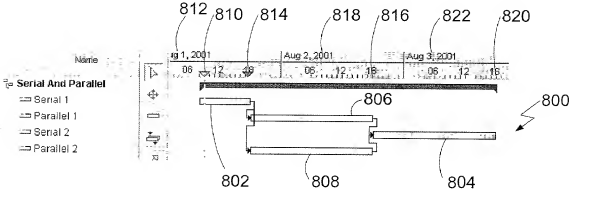
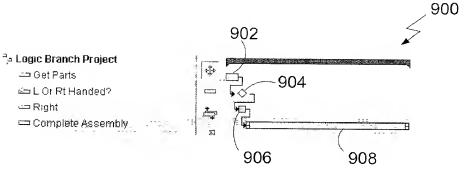


FIG. 9



TOTE80 "96SHH60

FIG. 10

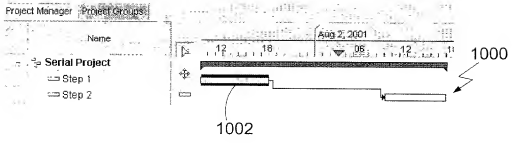


FIG. 11

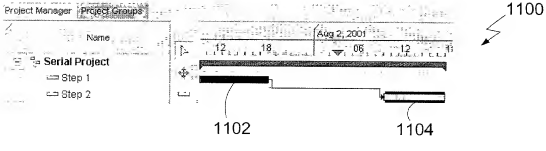
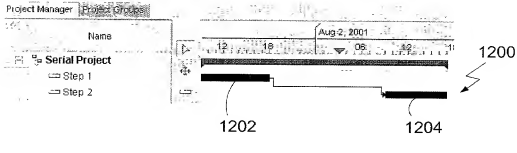


FIG. 12



07220-0694660

FIG. 13

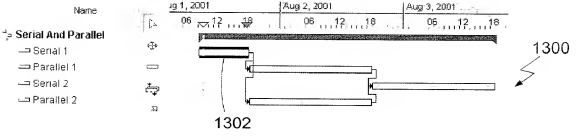


FIG. 14

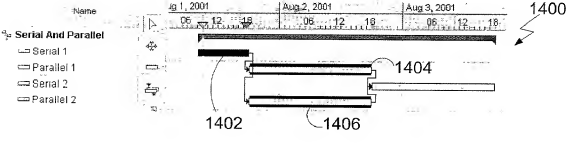


FIG. 15

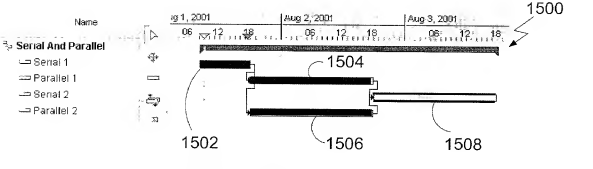


FIG. 16

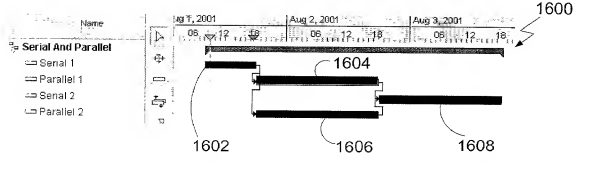


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FIG. 17

FIG. 18

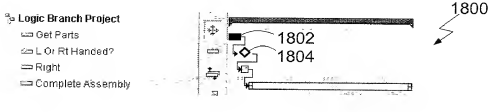


FIG. 19

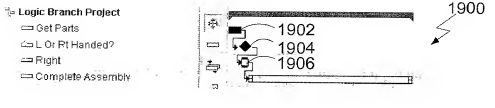


FIG. 20

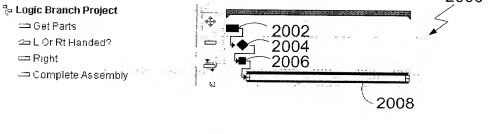
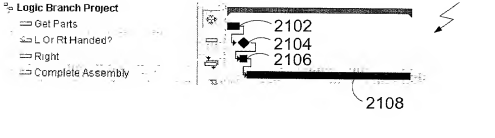


FIG. 21



10120-96944660

FIG. 22

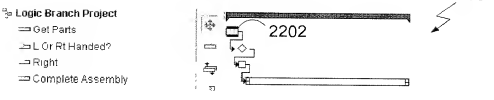


FIG. 23

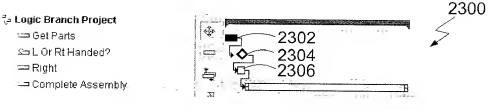
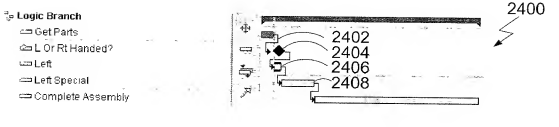


FIG. 24



TOP280-9691660

FIG. 25

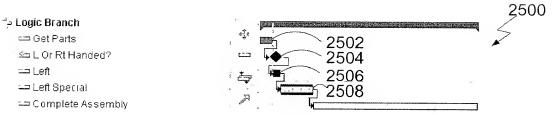


FIG. 26

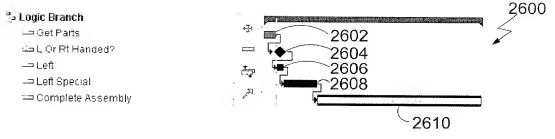
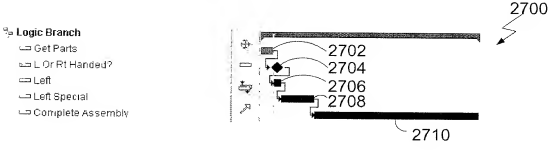


FIG. 27



TOKEN-9694660

FIG. 28A

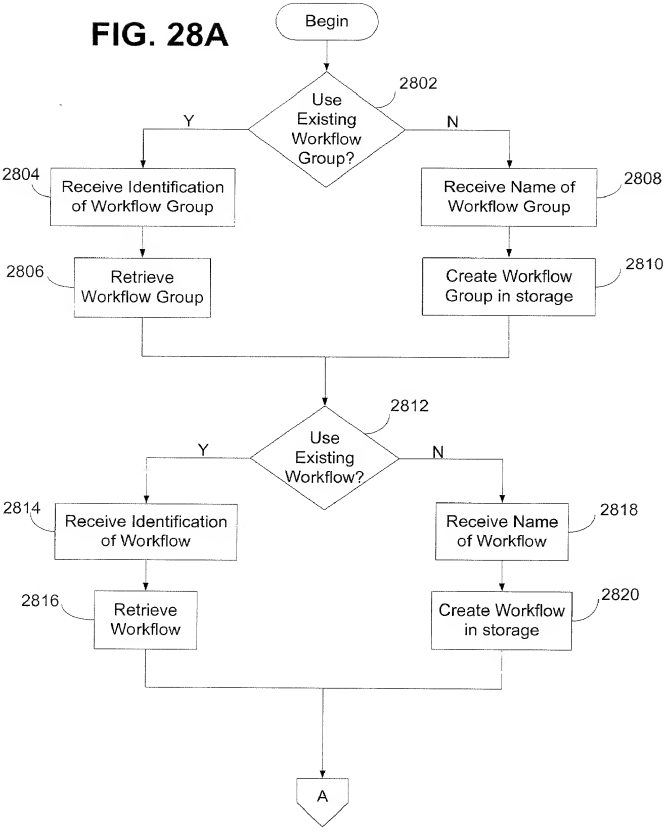
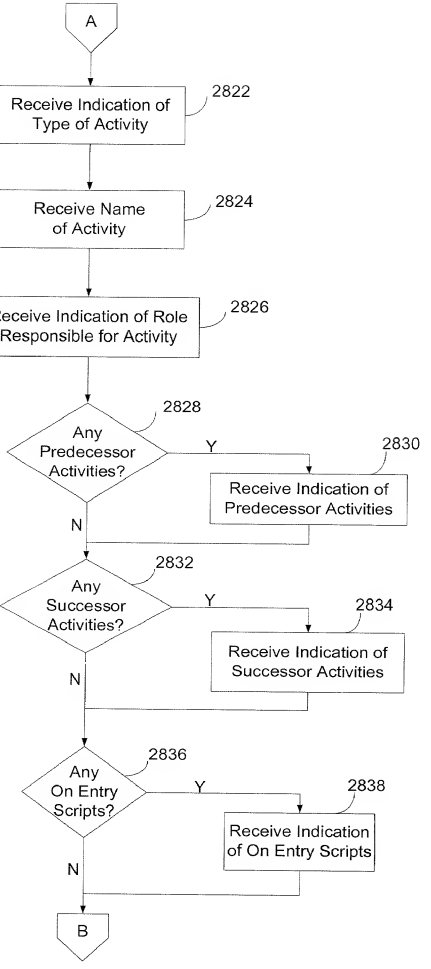
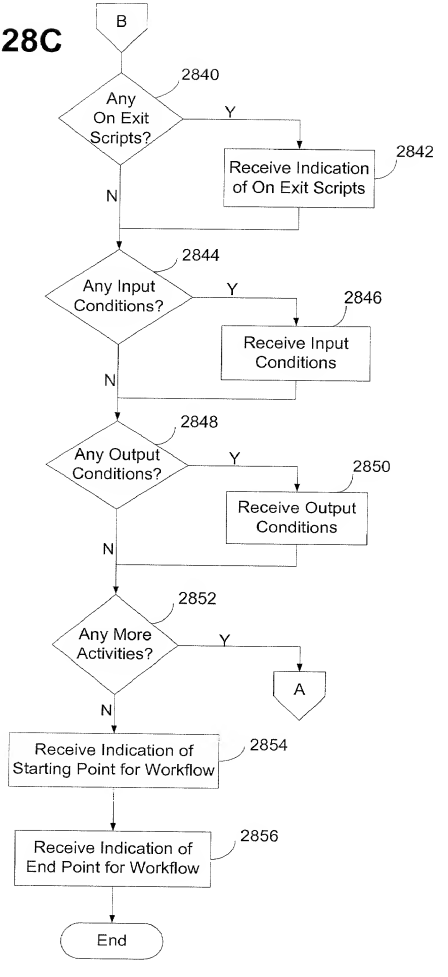


FIG. 28B



TOTE80 "96444660

FIG. 28C


B
2840
Any On Exit Scripts?
Y
N
Receive Indication of On Exit Scripts
2842
2844
Any Input Conditions?
Y
N
Receive Input Conditions
2846
2848
Any Output Conditions?
Y
N
Receive Output Conditions
2850
2852
Any More Activities?
Y
N
A
Receive Indication of Starting Point for Workflow
2854
Receive Indication of End Point for Workflow
2856
End

TOP280"95944650

FIG. 29

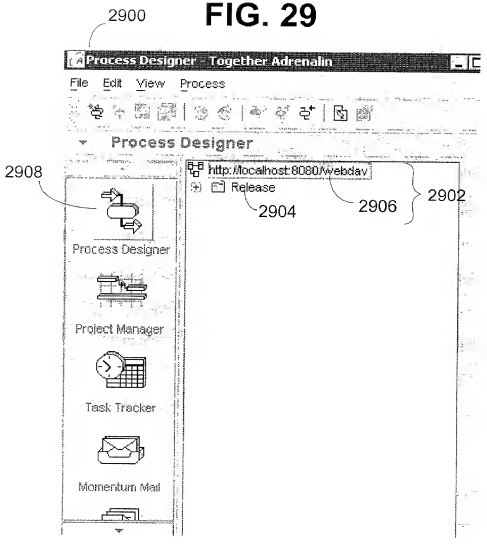
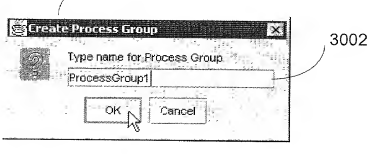


FIG. 30



09944696 "08314101

FIG. 31

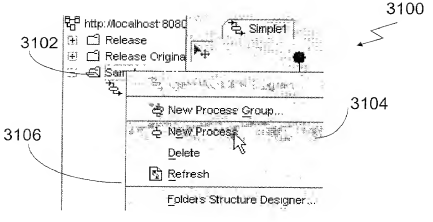


FIG. 32

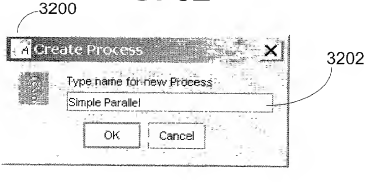
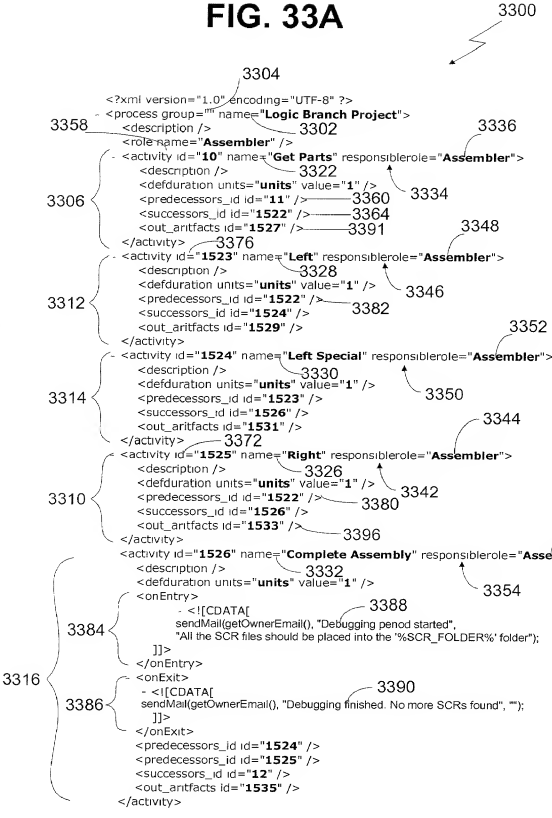
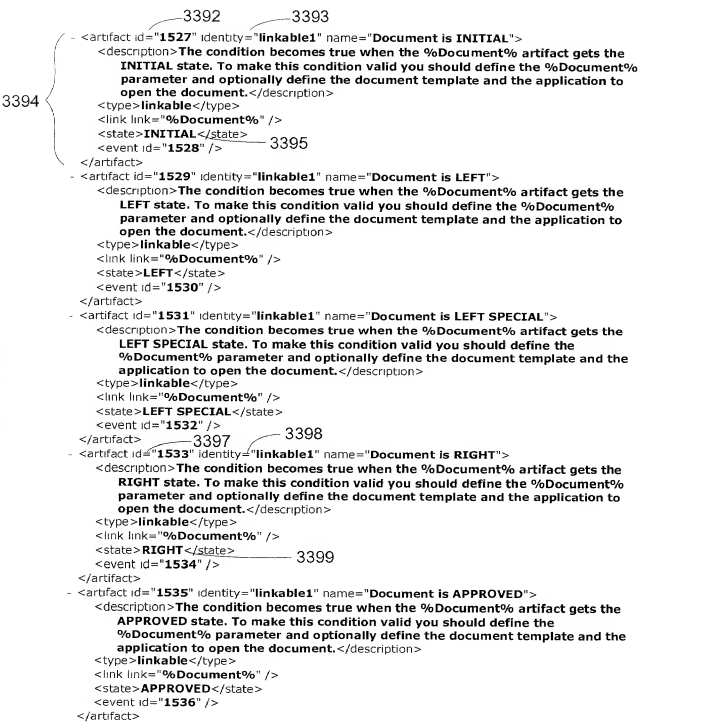


FIG. 33A



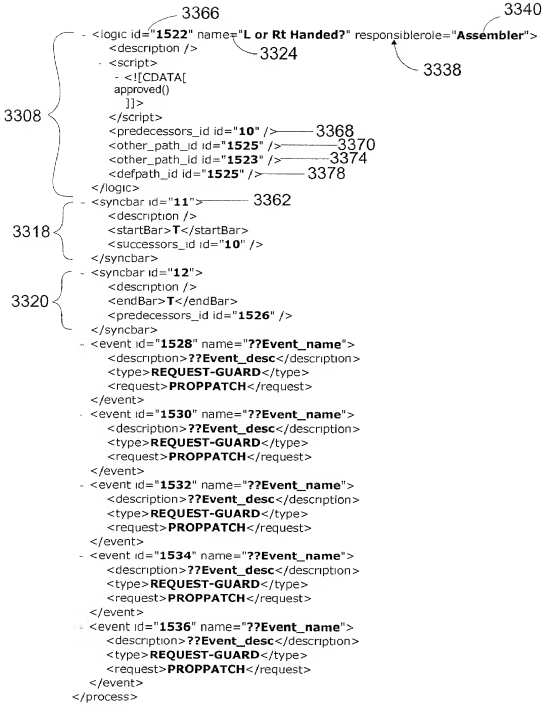
TOEBD-99+1650

FIG. 33B



US 9,946,760 B2

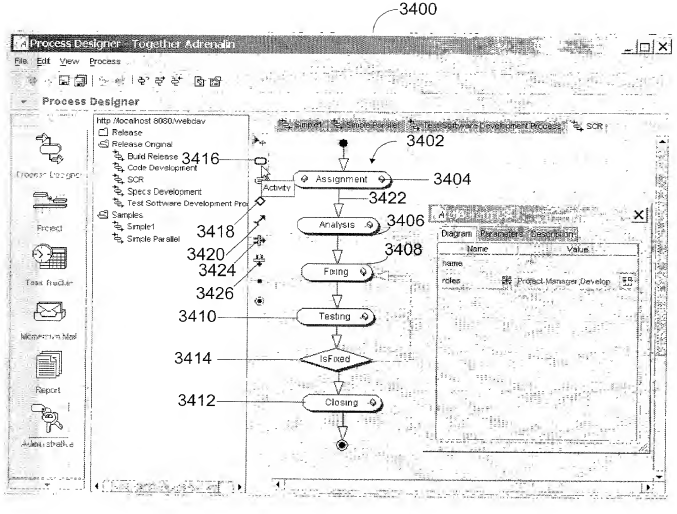
FIG. 33C



US 9,384,101 B2

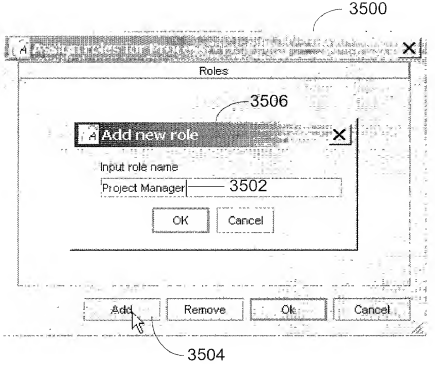
US 2007/0294660 A1

FIG. 34



EP 2 034 438 A1

FIG. 35



EP 1 703 430 A1

FIG. 36

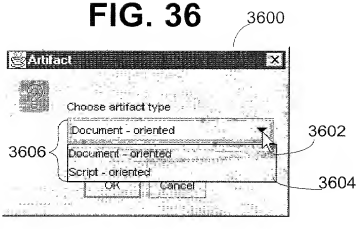
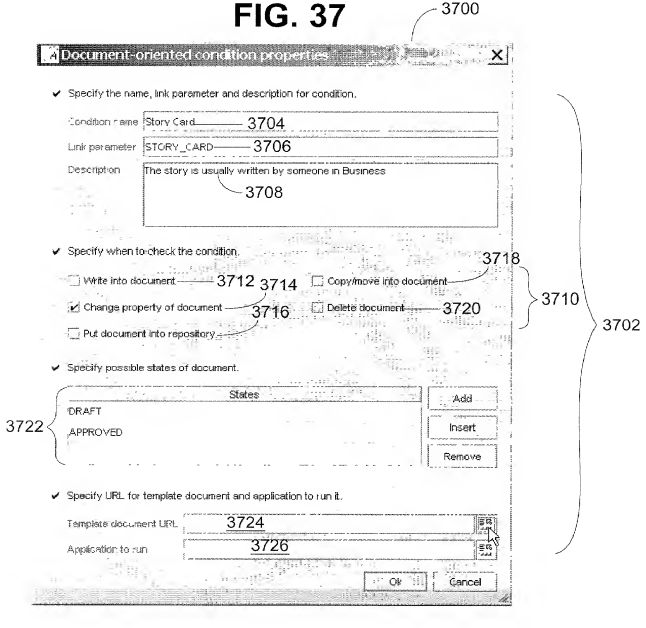
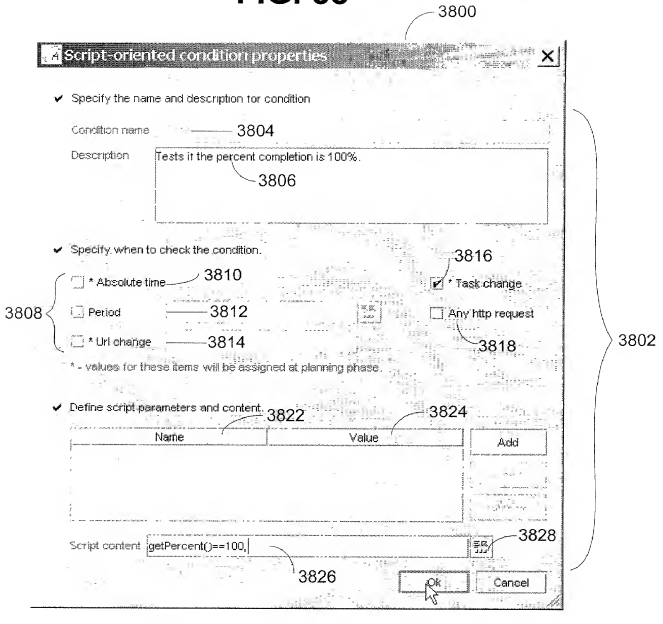


FIG. 37



TOTE30"95444660

FIG. 38



TOT20"96544660

FIG. 39

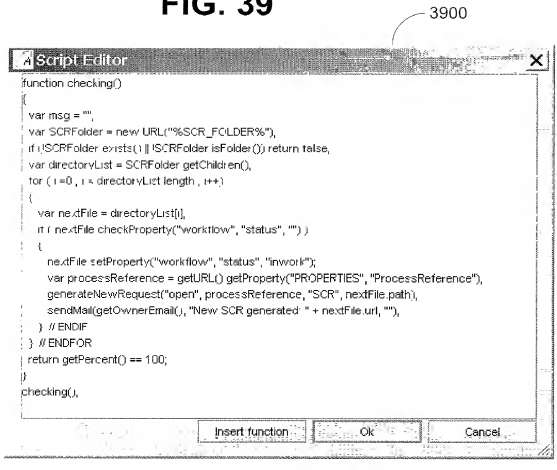
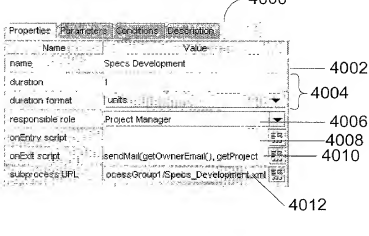


FIG. 40



TOTE80 "96944660

FIG. 41A

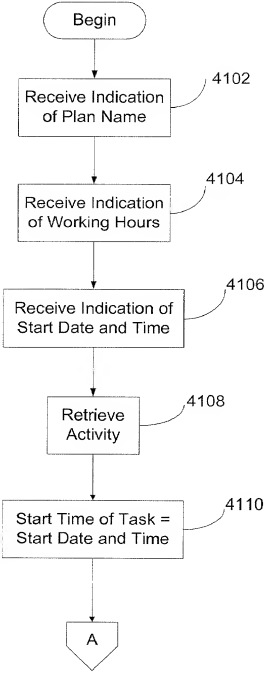
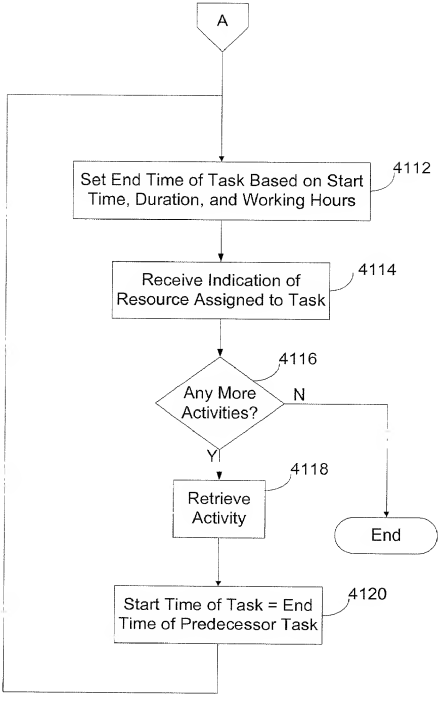


FIG. 41B


A
Set End Time of Task Based on Start Time, Duration, and Working Hours
4112
Receive Indication of Resource Assigned to Task
4114
4116
Any More Activities?
N
Y
4118
Retrieve Activity
End
Start Time of Task = End Time of Predecessor Task
4120

TOTE80"96941660

FIG. 42

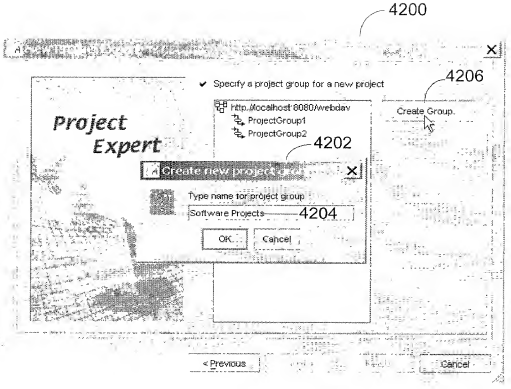


FIG. 43

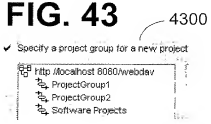


FIG. 44

TOTE30"96994650

FIG. 45

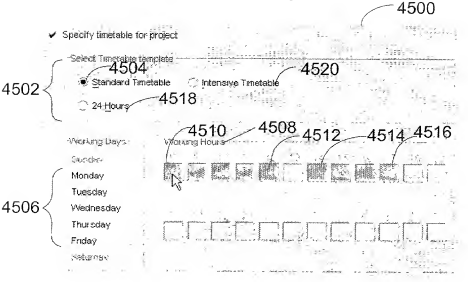


FIG. 46

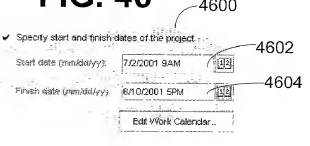


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FIG. 47

FIG. 48

4800
<?xml version="1.0" encoding="UTF-8" ?>
<A:plan name="Serial_And_Parallel" userid="JK" xmlns:A="workflow">
<A:description>
<![CDATA[
No Description
]]>
</A:description>
4802
<A:task activityID="10" caption="Serial 1"
link="Sample_Project_Plans/Serial_And_Parallel/Task_2.xml" name="Task_2"
owner="Worker"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
type="general" userid="JK">
<A:start>2001 8 1 9</A:start>
4804
<A:finish>2001 8 1 18</A:finish>
4806
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:successor name="Task_3" />
<A:successor name="Task_4" />
</A:task>
4808
<A:task activityID="1523" caption="Parallel 1"
link="Sample_Project_Plans/Serial_And_Parallel/Task_3.xml" name="Task_3"
owner="Worker"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
type="general" userid="JK">
<A:start>2001 8 1 18</A:start>
4812
<A:finish>2001 8 2 18</A:finish>
4816
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_2" />
<A:successor name="Task_5" />
</A:task>
4810
<A:task activityID="1524" caption="Parallel 2"
link="Sample_Project_Plans/Serial_And_Parallel/Task_4.xml" name="Task_4"
owner="Worker"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
type="general" userid="JK">
<A:start>2001 8 1 18</A:start>
4814
<A:finish>2001 8 2 18</A:finish>
4818
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_2" />
<A:successor name="Task_5" />
</A:task>
4820
<A:task activityID="1526" caption="Serial 2"
link="Sample_Project_Plans/Serial_And_Parallel/Task_5.xml" name="Task_5"
owner="Worker"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
type="general" userid="JK">
<A:start>2001 8 2 18</A:start>
4822
<A:finish>2001 8 3 18</A:finish>
4824
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_3" />
<A:predecessor name="Task_4" />
</A:task>
<A:task activityID="NONE" caption="Serial And Parallel"
link="Sample_Project_Plans/Serial_And_Parallel/Task_1.xml" name="Task_1"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
type="general" userid="JK">
<A:start>2001 8 1 8</A:start>
<A:finish>2001 8 3 18</A:finish>
<A:user>JK</A:user>
<A:subtask name="Task_2" />
US 6,094,654 - 08 3401

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FIG. 49

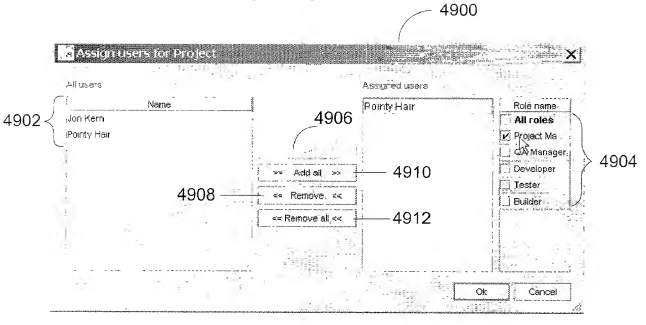

FIG. 50

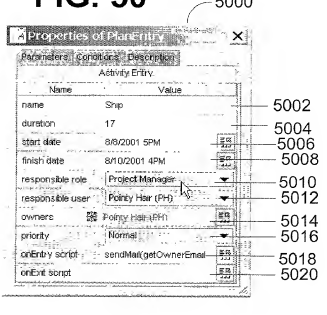

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FIG. 51

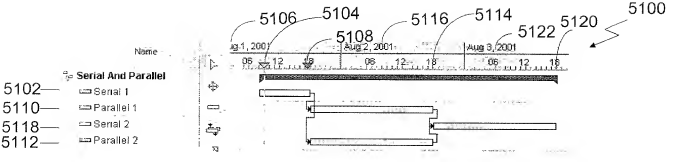

FIG. 52

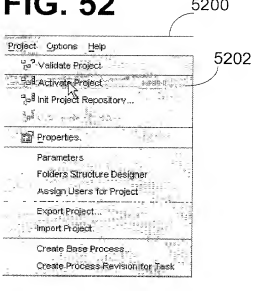

FIG. 53

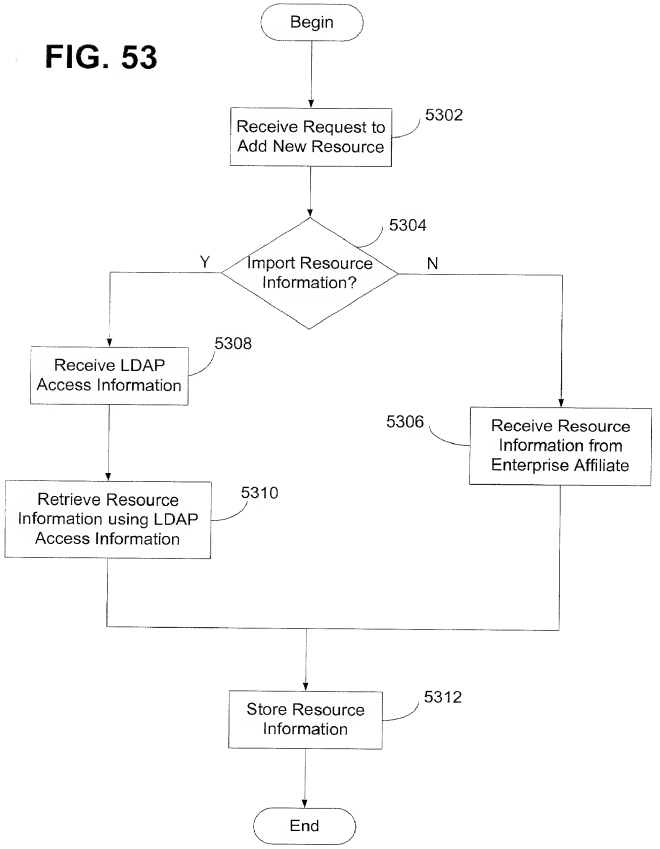
Begin
Receive Request to Add New Resource
5302
Import Resource Information?
5304
Y
N
Receive LDAP Access Information
5308
Receive Resource Information from Enterprise Affiliate
5306
Retrieve Resource Information using LDAP Access Information
5310
Store Resource Information
5312
End

FIG. 54

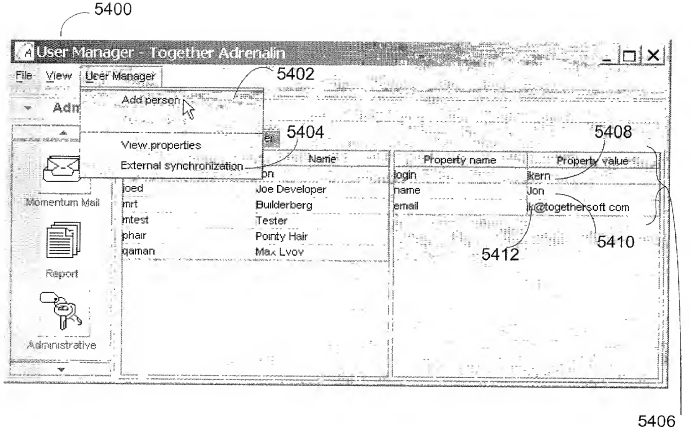
5400
User Manager - Together Adrenalin
File View User Manager
Add person
5402
View properties
External synchronization
5404
Name
Property name
Property value
5408
jkern
Joe Developer
Builderberg
Tester
Pointy Hair
Max Lvov
login
name
email
jk@togethersoft.com
5412
5410
Momentum Mail
Report
Administrative
5406

FIG. 55

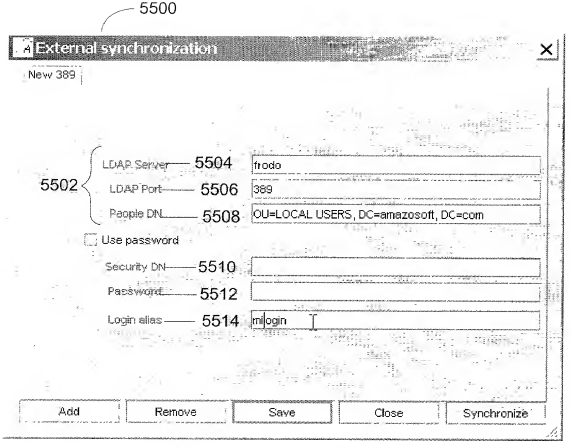
5500
External synchronization
New 389
5502
LDAP Server
5504
frodo
LDAP Port
5506
389
People DN
5508
OU=LOCAL USERS, DC=amazosoft, DC=com
Use password
Security DN
5510
Password
5512
Login alias
5514
mlogin
Add
Remove
Save
Close
Synchronize

FIG. 56

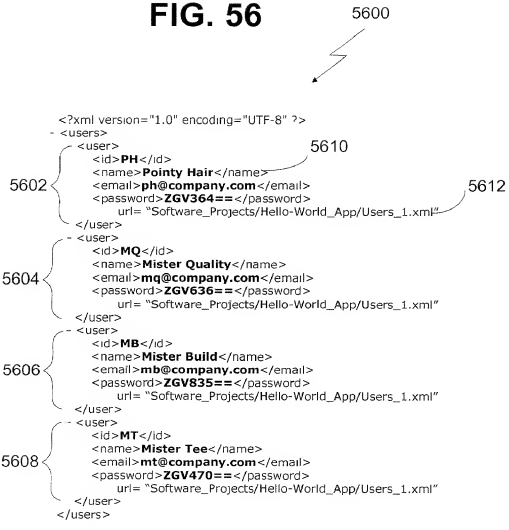

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FIG. 57A

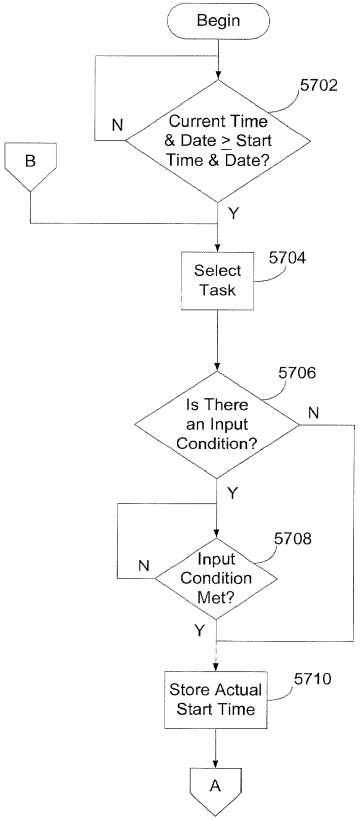
Begin
5702
Current Time & Date ≥ Start Time & Date?
N
Y
B
5704
Select Task
5706
Is There an Input Condition?
N
Y
5708
Input Condition Met?
N
Y
5710
Store Actual Start Time
A

FIG. 57B

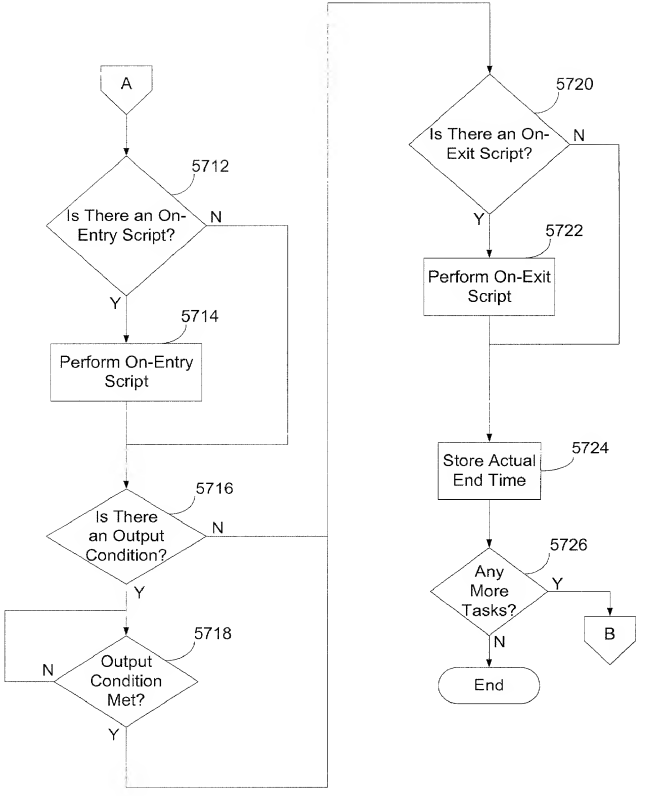
A
5712
Is There an On-Entry Script?
N
Y
5714
Perform On-Entry Script
5716
Is There an Output Condition?
N
Y
5718
Output Condition Met?
N
Y
5720
Is There an On-Exit Script?
N
Y
5722
Perform On-Exit Script
5724
Store Actual End Time
5726
Any More Tasks?
Y
B
N
End

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FIG. 58

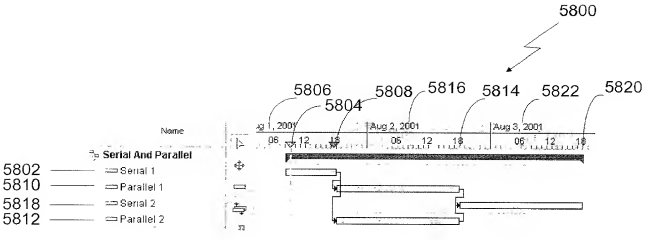

FIG. 59

5900

```
<?xml version="1.0" encoding="UTF-8" ?>
- <A:plan name="Serial_And_Parallel" userid="JK" xmlns:A="workflow">
  - <A:description>
      - <![CDATA[
      No Description
      ]]>
    </A:description>
  - <A:task activityID="10" caption="Serial 1"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_2.xml" name="Task_2"
        owner="Worker"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 1 8</A:start>
      <A:finish>2001 8 1 18</A:finish>
      <A:supertask name="Task_1" />
      <A:user>JK</A:user>
      <A:successor name="Task_3" />
      <A:successor name="Task_4" />
    </A:task>
  - <A:task activityID="1523" caption="Parallel 1"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_3.xml" name="Task_3"
        owner="Worker"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 1 18</A:start>
      <A:finish>2001 8 2 18</A:finish>
      <A:supertask name="Task_1" />
      <A:user>JK</A:user>
      <A:predecessor name="Task_2" />
      <A:successor name="Task_5" />
    </A:task>
  - <A:task activityID="1524" caption="Parallel 2"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_4.xml" name="Task_4"
        owner="Worker"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 1 18</A:start>
      <A:finish>2001 8 2 18</A:finish>
      <A:supertask name="Task_1" />
      <A:user>JK</A:user>
      <A:predecessor name="Task_2" />
      <A:successor name="Task_5" />
    </A:task>
  - <A:task activityID="1526" caption="Serial 2"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_5.xml" name="Task_5"
        owner="Worker"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 2 18</A:start>
      <A:finish>2001 8 3 18</A:finish>
      <A:supertask name="Task_1" />
      <A:user>JK</A:user>
      <A:predecessor name="Task_3" />
      <A:predecessor name="Task_4" />
    </A:task>
  - <A:task activityID="NONE" caption="Serial And Parallel"
        link="Sample_Project_Plans/Serial_And_Parallel/Task_1.xml" name="Task_1"
        processURL="http://localhost:8080/webdav/ProcessGroup2/Process1.xml"
        type="general" userid="JK">
      <A:start>2001 8 1 8</A:start>
      <A:finish>2001 8 3 18</A:finish>
      <A:user>JK</A:user>
      <A:subtask name="Task_2" />
```

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TOTE80-95944660

FIG. 60

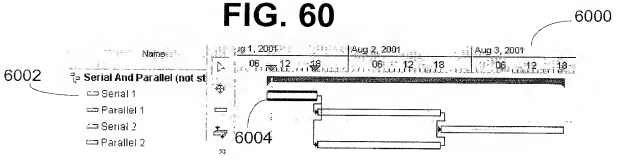


FIG. 61

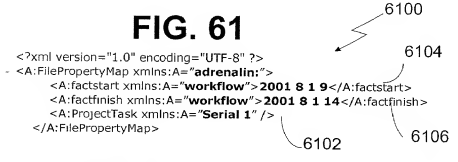


FIG. 62

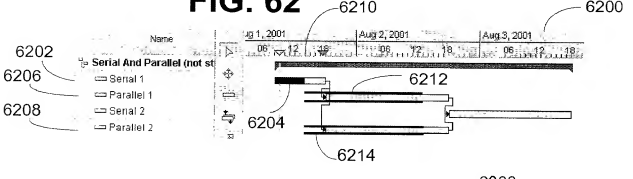


FIG. 63

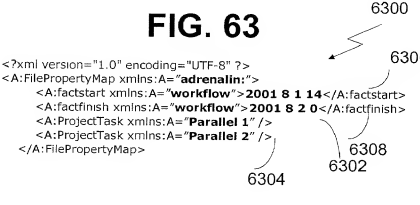
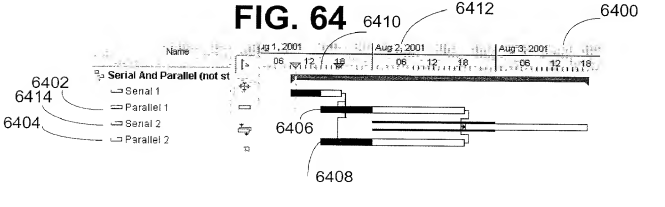


FIG. 64



10120-95HK60

FIG. 65

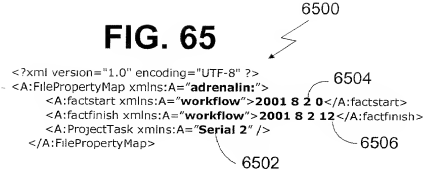


FIG. 66

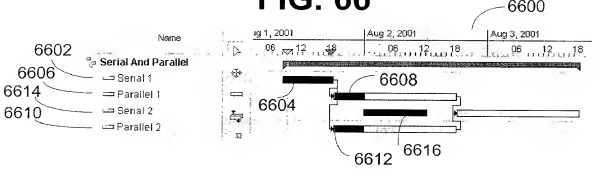
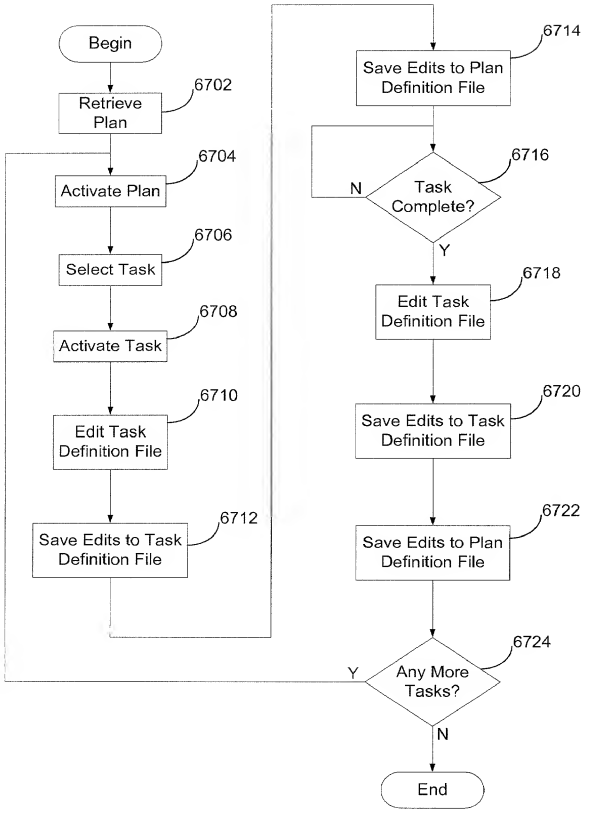


FIG. 67



0099465 "08110"

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FIG. 68

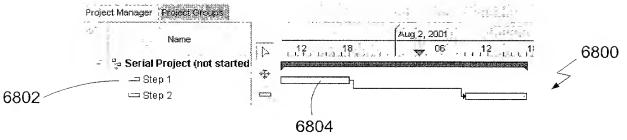


FIG. 69

6900

```
- <A:task activityID="10" caption="Step 1"
      link="Sample_Project_Plans/Serial_Project/Task_2.xml" name="Task_2"
      owner="Worker"
      processURL="http://localhost:8080/webdav/ProcessGroup2/Process2.xml"
      type="general" userid="JK">
    <A:start>2001 8 1 9</A:start>
    <A:finish>2001 8 1 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:successor name="Task_3" />
    <state>UNEXECUTED</state>
  </A:task>
```

6902

FIG. 70

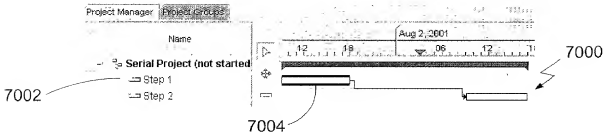


FIG. 71

7100

```
<A:task activityID="10" caption="Step 1"
    link="Sample_Project_Plans/Serial_Project/Task_2.xml" name="Task_2"
    owner="Worker"
    processURL="http://localhost:8080/webdav/ProcessGroup2/Process2.xml"
    type="general" userid="JK">
  <A:start>2001 8 1 9</A:start>
  <A:finish>2001 8 1 18</A:finish>
  <A:supertask name="Task_1" />
  <A:user>JK</A:user>
  <A:successor name="Task_3" />
  <state>EXECUTING</state>
</A:task>
```

7102

FIG. 72

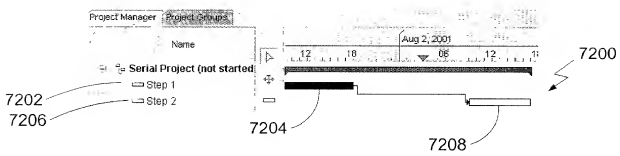


FIG. 73

7300

```
- <A:task activityID="10" caption="Step 1"
      link="Sample_Project_Plans/Serial_Project/Task_2.xml" name="Task_2"
      owner="Worker"
      processURL="http://localhost:8080/webdav/ProcessGroup2/Process2.xml"
      type="general" userid="JK">
    <A:start>2001 8 1 9</A:start>
    <A:finish>2001 8 1 18</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:successor name="Task_3" />
    <state>EXECUTED</state>
  </A:task>
```

7302

FIG. 74

7400

```
  <A:task activityID="1527" caption="Step 2"
      link="Sample_Project_Plans/Serial_Project/Task_3.xml" name="Task_3"
      owner="Worker"
      processURL="http://localhost:8080/webdav/ProcessGroup2/Process2.xml"
      type="general" userid="JK">
    <A:start>2001 8 2 9</A:start>
    <A:finish>2001 8 2 17</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <state>UNEXECUTED</state>
  </A:task>
```

7402

FIG. 75

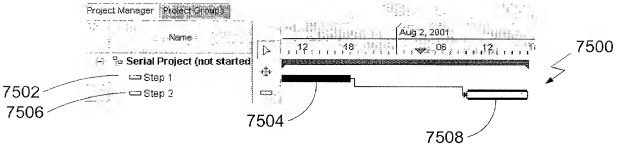

Project Manager
Project Groups
Name
Aug 2, 2001
12
18
08
12
Serial Project (not started)
Step 1
Step 2
7500
7502
7506
7504
7508

FIG. 76

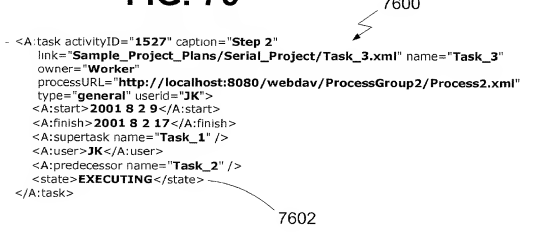

7600
- <A:task activityID="1527" caption="Step 2"
link="Sample_Project_Plans/Serial_Project/Task_3.xml" name="Task_3"
owner="Worker"
processURL="http://localhost:8080/webdav/ProcessGroup2/Process2.xml"
type="general" userid="JK">
<A:start>2001 8 2 9</A:start>
<A:finish>2001 8 2 17</A:finish>
<A:supertask name="Task_1" />
<A:user>JK</A:user>
<A:predecessor name="Task_2" />
<state>EXECUTING</state>
</A:task>
7602

FIG. 77

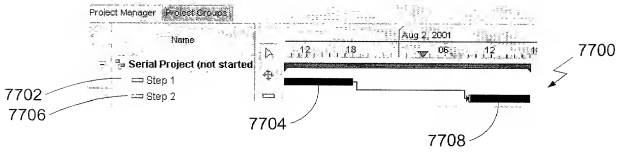


FIG. 78

7800

```
- <A:task activityID="1527" caption="Step 2"
      link="Sample_Project_Plans/Serial_Project/Task_3.xml" name="Task_3"
      owner="Worker"
      processURL="http://localhost:8080/webdav/ProcessGroup2/Process2.xml"
      type="general" userid="JK">
    <A:start>2001 8 2 9</A:start>
    <A:finish>2001 8 2 17</A:finish>
    <A:supertask name="Task_1" />
    <A:user>JK</A:user>
    <A:predecessor name="Task_2" />
    <state>EXECUTED</state>
  </A:task>
```

7802

FIG. 79

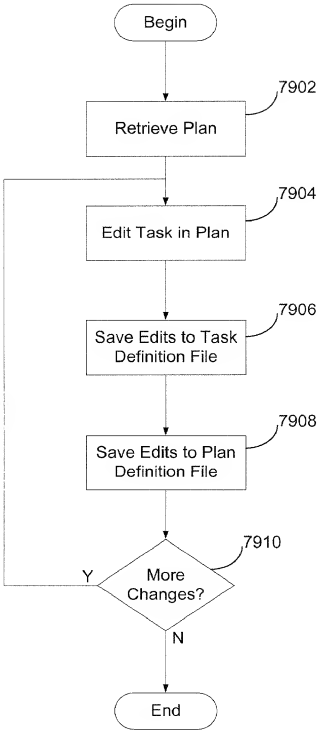
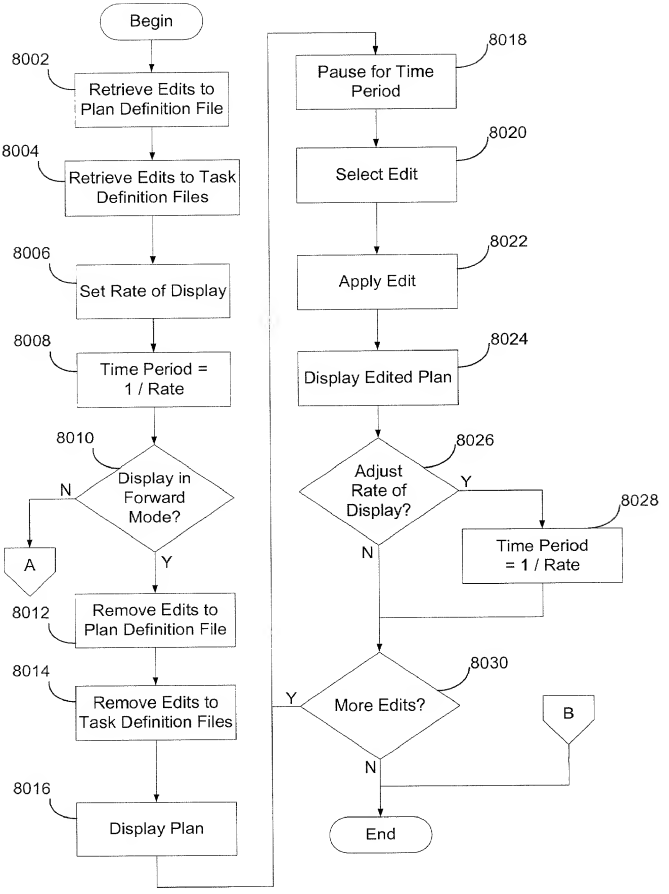

Begin
7902
Retrieve Plan
7904
Edit Task in Plan
7906
Save Edits to Task Definition File
7908
Save Edits to Plan Definition File
7910
More Changes?
Y
N
End

FIG. 80A



10180-96944601

TOTE80"9694660

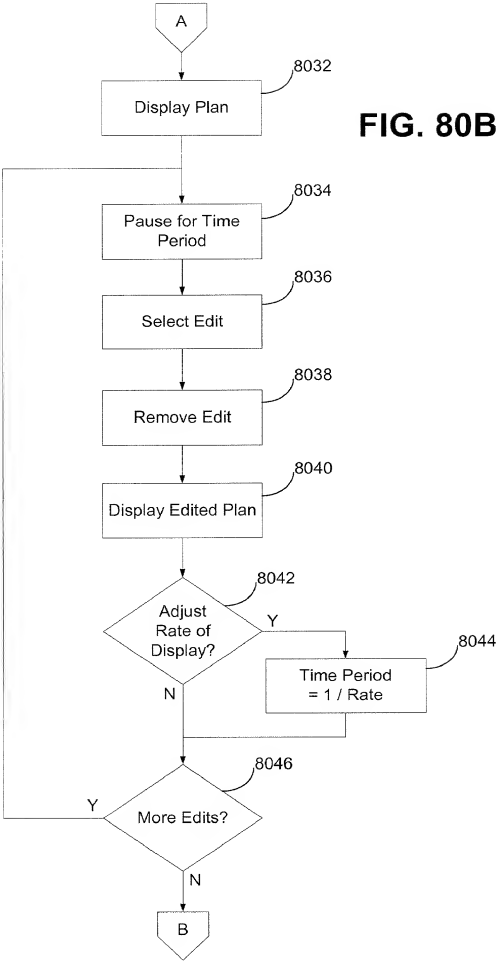
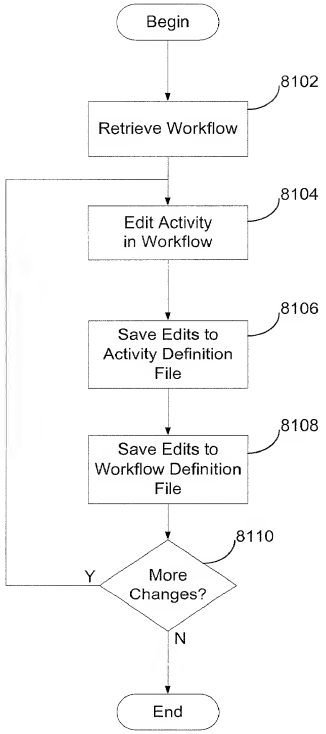


FIG. 80B

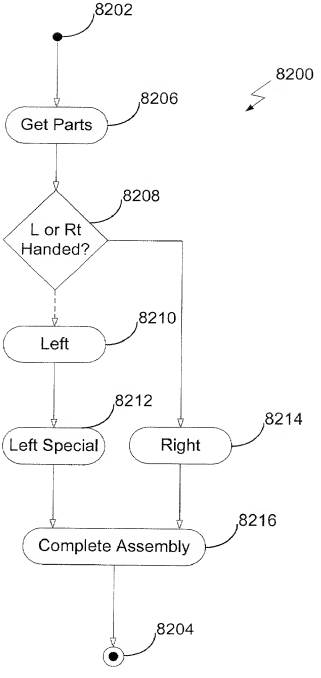
FIG. 81



0994669 "08340T

09644595 - 083401

FIG. 82



10180-95hs50

FIG. 83

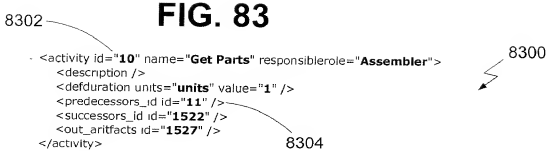


FIG. 84

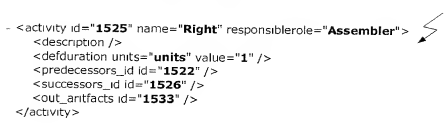


FIG. 85

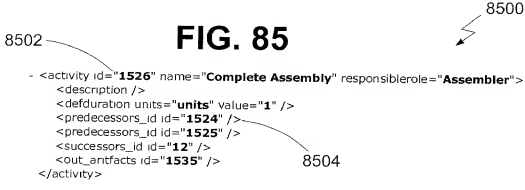


FIG. 86

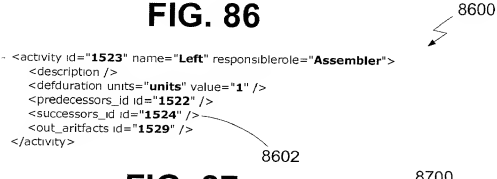


FIG. 87

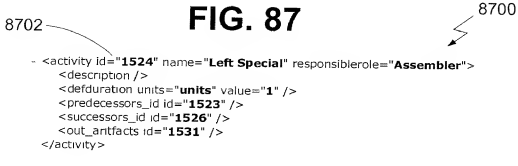
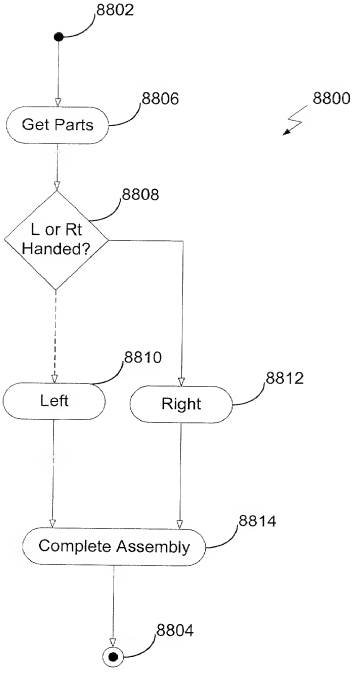


FIG. 88


8802
8806
Get Parts
8800
8808
L or Rt
Handed?
8810
Left
8812
Right
8814
Complete Assembly
8804

TOKEN-9694660

FIG. 89

```
- <activity id="1523" name="Left" responsiblerole="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="1522" />
    <successors_id id="1526" />
    <out_aritfacts id="1529" />
  </activity>
```

8902

FIG. 90

```
- <activity id="1526" name="Complete Assembly" responsiblerole="Assembler">
    <description />
    <defduration units="units" value="1" />
    <predecessors_id id="1523" />
    <predecessors_id id="1525" />
    <successors_id id="12" />
    <out_aritfacts id="1535" />
  </activity>
```

9002

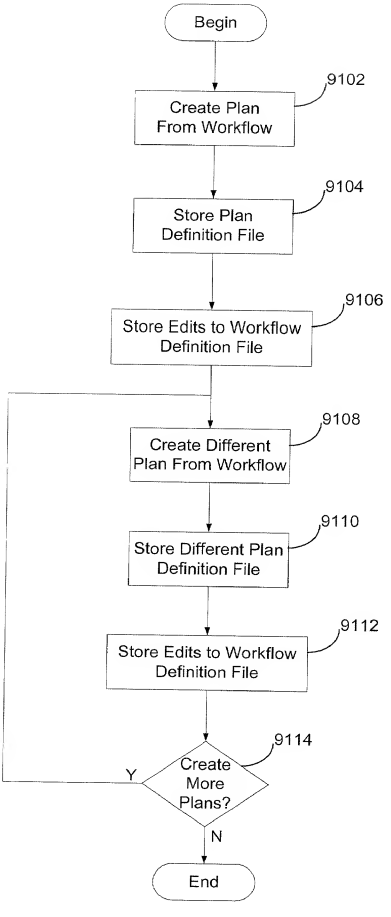
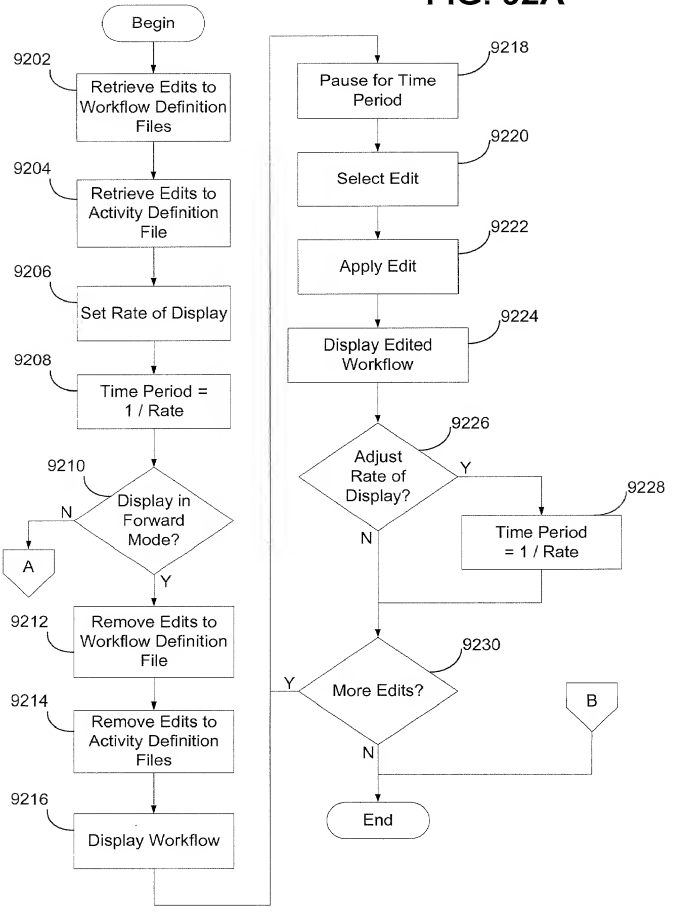


FIG. 91

09944956-023701

TOTEM-95hh160

FIG. 92A



US 2013/0239063 A1 Sep. 12, 2013

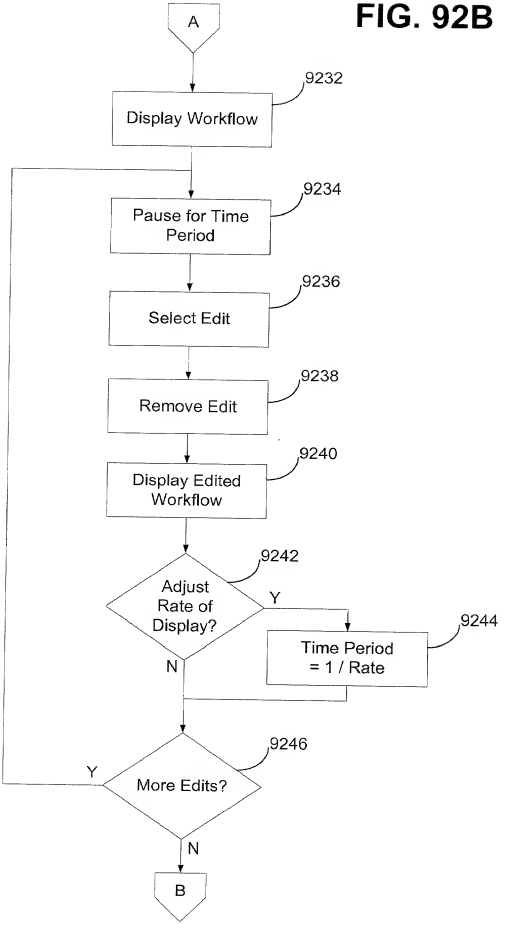



FIG. 92B